

1.3 Open Sentences

EX: Find the solution set for the equation if the replacement set is $\{0, 1, 2, 3\}$.

~~8m - 7 = 17~~

sorry!
😊

$$8(0) - 7 = 17$$
$$0 - 7 \neq 17$$

$$8(2) - 7 = 17$$
$$16 - 7 \neq 17$$

$$\boxed{\{3\}}$$

$$8(1) - 7 = 17$$
$$8 - 7 \neq 17$$

$$8(3) - 7 = 17$$
$$24 - 7 = 17$$

EX: Solve $x = \frac{3^2 - (7-5)}{3(4) + (2+1)} = \boxed{\frac{7}{15}}$

PEMDAS

TOP: $3^2 - (7-5)$
 $3^2 - (2)$
 $9 - 2$
 7

Bottom: $3(4) + (2+1)$
 $3(4) + 3$
 $12 + 3$
 15

EX: Find the solution set for the inequality if the replacement set is $\{\cancel{5}, \cancel{6}, 7, 8\}$.

$$30 + n \geq 37$$

$$\boxed{\{7, 8\}}$$

$$30 + 5 \geq 37$$
$$35 \not\geq 37$$

$$30 + 7 \geq 37$$
$$37 \geq 37$$

$$30 + 6 \geq 37$$
$$36 \not\geq 37$$

$$30 + 8 \geq 37$$
$$38 \geq 37$$